

Title (en)

Enhanced damping using cryogenic cooling

Title (de)

Verbesserte Dämpfung mit kryogener Kühlung

Title (fr)

Amortissement amélioré utilisant un refroidissement cryogène

Publication

EP 2336596 A3 20121226 (EN)

Application

EP 10195290 A 20101216

Priority

US 64039409 A 20091217

Abstract (en)

[origin: EP2336596A2] A damping apparatus is disclosed having at least one magnet, a conducting member movable relative to the magnet, a cryogenic fluid, and a channel that confines the cryogenic fluid in contact with the conducting member. The cryogenic fluid may maintain the conducting member at cryogenic temperatures, thereby increasing a damping force provided by the conducting member to a payload.

IPC 8 full level

F16F 15/03 (2006.01); **F16C 32/04** (2006.01)

CPC (source: EP US)

F16F 15/035 (2013.01 - EP US)

Citation (search report)

- [XY] JP H0533828 A 19930209 - SHOWA ELECTRIC WIRE & CABLE CO
- [XY] US 2008278270 A1 20081113 - HULL JOHN R [US]
- [XY] DE 20318389 U1 20040226 - NEXANS [FR]
- [YA] JP 2000120682 A 20000425 - KOYO SEIKO CO
- [A] US 5122506 A 19920616 - WANG XINGWU [US]

Cited by

CN104295658A; WO2014138118A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2336596 A2 20110622; EP 2336596 A3 20121226; JP 2011127764 A 20110630; JP 5658021 B2 20150121; US 2011147146 A1 20110623; US 2012118687 A1 20120517; US 8584816 B2 20131119

DOCDB simple family (application)

EP 10195290 A 20101216; JP 2010281958 A 20101217; US 201213354737 A 20120120; US 64039409 A 20091217